

BIM Issue Manager

User Manual



BIM-IM
ISSUE MANAGER

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1. Introduction

Welcome to **BIM Issue Manager**, a next-generation coordination and issue management platform purpose-built for the AEC (Architecture, Engineering, and Construction) industry. This toolkit empowers teams to track, review, and resolve issues directly within Building Information Models (BIM), integrating the most critical aspects of design and field coordination into a streamlined, cross-platform experience.

BIM Issue Manager was conceived as a response to the growing complexity and fragmentation in modern BIM-based workflows. As projects increase in size and involve multiple disciplines and stakeholders, the need for a centralized, intelligent, and visually integrated issue management system becomes essential. BIM Issue Manager addresses that need by providing a suite of tools that work in harmony: a Revit-integrated plugin, a powerful desktop application with advanced markup and 3D IFC viewing capabilities, and a robust web-based backend powered by a scalable database and RESTful API layer.

Whether you are an architect marking up design feedback, an engineer reviewing clash reports, a BIM coordinator assigning resolution tasks, or a project manager tracking team performance, the platform is designed to support your role with clarity and precision.

With full integration across platforms, intelligent automation, and a visually rich editing environment, BIM Issue Manager offers a single source of truth for all issue-related communication. It is designed to fit seamlessly into BIM workflows, reducing coordination friction, simplifying resolution, and improving delivery timelines.

Who Should Use This Manual?

- BIM Coordinators and Managers
- Design Engineers and Architects
- QA/QC Engineers
- Project Managers and Contractors

Core Components:

- Revit Plugin: For in-model issue creation and viewpoint capture.
- Desktop Application: A standalone WPF tool for editing and reviewing snapshots.

2. Revit Plugin Usage

Features:

- Create a new Issue.
- Load Saved Issues.

Accessing the Plugin:

- Launch Revit and open the target project.
- Navigate to the **BIM Issue Manager** tab.
- Log in with your credentials.

Creating an Issue:

1. Select the relevant elements in the model.
2. Open **Add Issue**.
3. Fill in the fields: Title, Description, Priority, Area, Assigned User, Labels.
4. Capture Snapshot and Section Box.
5. Click **Save Issue** – your data is sent to the Database.

Loading a saved Issue:

- Use the **Issues List** window.
- Filter by project, date, or priority.
- Select a saved viewpoint to zoom and load in Revit.

3. Desktop Markups Editor

Features:

- Profile and Stats Dashboard.
- Projects Management.
- Companies Management.
- Teams Management.
- Issues Management.
- Markup Editor.
- IFC 3D Viewer.
- AI Assistant.

Opening the App:

- Launch the standalone desktop application.
- Log in with your credentials.

Home and Navigation:

- Use the left panel to access modules: Issues, Teams, Projects, Profile.
- Profile dashboard shows stats and summaries.

Project Management:

- Add Projects and Delete them.
- Assign Companies to project.
- View project list and stats.

Companies Management:

- Add Companies and Delete them.
- View company list and stats.

Team Collaboration:

- Add Members.
- Assign Members to projects.
- View participant list and stats.

Managing Issues:

1. Load an issue from the list.
2. Filter Issues according to project, Priority and Date.
3. Access issue details through clicking on it.
4. Add comments and live chat.
5. Edit properties like title, labels, resolution state.
6. Save to sync changes to the server.

Markup Editor:

- Uploading images.
- Adding shapes and freehand markups.

3D IFC Viewer:

- Supports viewing of federated IFC files.
- Navigate, zoom, rotate and isolate model components.
- Select model elements to view associated metadata.

Additional Features:

- AI Assistant: Chat with AI about anything on your mind.
- Synchronization: Real Time updates in issue status and chat.

4. Database & Web Synchronization

What Gets Synced:

- Viewpoint data: Camera, Elements, Snapshot Path.
- Issue fields: Title, Description, Priority, Labels.
- User and Team assignments.

When Sync Happens:

- On Save (Revit or Desktop)
- On Load or Refresh

Offline Usage:

- Desktop app supports cached issues.
- Changes sync automatically when back online.

5. Best Practices

- Always capture a snapshot and section box when creating issues.
- Use labels and teams to streamline coordination.
- Sync regularly to avoid data loss.
- Use flagging to highlight unresolved or critical issues.
- Leverage AI to reduce manual work and ensure issue consistency.

6. Troubleshooting

Issue not syncing?

- Check internet connection.
- Ensure login session is active.
- Retry saving or contact the admin.

Image not showing?

- Snapshot might be missing or corrupted.
- Re-capture or reload the issue.

Revit Plugin not loading?

- Confirm installation and Revit version compatibility.
- Restart Revit and try again.

IFC Viewer not working?

- Ensure file format is supported.
- Restart application and reload the file.

AI Assistant unresponsive?

- Retry the query.
- Ensure you're connected to the internet.
- Contact admin if issues persist.